

DESIGN CRITERIA:

APPLICABLE CODES, REGULATIONS & STANDARDS

1. THE 2020 FLORIDA BUILDING CODE, SPECIFICALLY CHAPTER 16 STRUCTURAL DESIGN, CHAPTER 20 ALUMINUM & CH. 23 WOOD.
2. AA ASM 35 & SPECIFICATIONS FOR ALUMINUM STRUCTURES, PART 1-A OF THE ALUMINUM DESIGN MANUAL PREPARED BY THE ALUMINUM ASSOCIATION, INC. WASHINGTON D.C. 2005 ED.
3. ASCE 7-16 & SE17
4. NDS NATIONAL DESIGN SPECIFICATION FOR WOOD.
5. ACI318 CONCRETE REFERENCE MANUAL.

WIND LOADS

1. BUILDING OCCUPANCY CATEGORY, PARAGRAPH 1604.5 & TABLE 1604.5: RISK CATEGORY 1.
2. BASIC WIND SPEED, TABLE 1609C, STATE OF FLORIDA DEBRIS REGION & BASIC WIND SPEED, PARAGRAPH 1609.3.1 & TABLE 1609.3.1 EQUIVALENT BASIC WIND SPEED:

120

 MPH EXPOSURE CATEGORY, PARAGRAPH 1609.4.3:

C
3. WIND LOADS PER FBC TABLE 2002.4 (MWFRS)
VULT =

120

 MPH & EXPOSURE =

C

FOR 20 X 20 X 0.013" MESH SCREEN
HORIZONTAL PRESSURES ON WINDWARD SURFACES =

28

 PSF
HORIZONTAL PRESSURES ON LEEWARD SURFACES =

22

 PSF
VERTICAL PRESSURES ON SCREEN SURFACES =

8

 PSF
VERTICAL PRESSURES ON SOLID SURFACES =

23

 PSF

FOR 18 X 14 X 0.013" MESH SCREEN, APPLIED FACTOR =

.88

FOR ALLOWABLE STRESS DESIGN, APPLIED FACTOR =

.6

FOUNDATION DESIGN

EXISTING APPROVED 8"x8" FOOTER W/ (1) #5 REBAR W/ 4" SLAB 3000 PSI W/ FIBERMESH.

MISCELLANEOUS

1. SCREENED ENCLOSURES CONTAINING SWIMMING POOLS SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF FBC R4501.17 RESIDENTIAL SWIMMING BARRIER REQUIREMENTS.
2. ALUMINUM ADDITIONS ARE NOT TO BE INSTALLED ON A MANUFACTURED HOME, TRAILER HOME, OR PRE-FAB HOME. IF THE EXISTING STRUCTURE IS ONE OF THESE, A SEPARATE 4TH WALL SUPPORT SYSTEM IS SO TO BE ENGINEERED SO THAT NO ADDITIONAL LOADING IS PLACED ON THE MANUFACTURED HOME.

FASTENER SPECIFICATIONS

1. FASTENERS ARE REQUIRED TO BE SAE GRADE 2 OR BETTER ZINC PLATED. (CONCRETE ANCHORS ARE TO BE TAPCONS OR BETTER, INSTALLED TO MFG. SPECIFICATIONS)
2. IT IS THE OWNERS RESPONSIBILITY TO MAINTAIN THE SCREENS, FASTENERS AND SCREENS TO MANUFACTURING SPECIFICATIONS.
3. WHERE WOOD DECK IS PRESENT USE 1/4" X 3-1/2" GALV. LAG SCREWS IN LIEU OF MASONRY ANCHORS. UNLESS OTHERWISE SPECIFIED.
4. 1"x2" NON STRUCTURAL MEMBERS ATTACHED TO HOST
 - A. FOR MASONRY/CONCRETE APPLICATION USE GALVANIZED 1/4" X 2-3/4" TAPCONS OR EQUAL AT 24" O.C. AND 6" FROM ENDS
 - B. FOR WOOD APPLICATION USE #14 X 2-3/4" WOOD SCREW AT 24" O.C. AND 6" FROM ENDS.
 - C. FOR ALUMINUM APPLICATION USE #10 X 1-1/2" SMS OR TEK SCREW AT 24" O.C. AND 6" FROM ENDS
 - D. WHERE 1"x2" INSTALLED THROUGHOUT AN "OPEN VIEW" SPACING SHALL BE REDUCED TO 18" O.C. AND 6" FROM ENDS

RESPONSIBILITIES

1. ALL SITE WORK SHALL BE PERFORMED BY A LICENSED CONTRACTOR IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDANANCES, AND THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.
2. FOR FASTENERS WHICH ARE NOT VISIBLE AFTER INSTALLATION, THE CONTRACTOR SHALL VERIFY AND ENSURE INSTALLATION HAS BEEN ACCOMPLISHED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND IN ACCORDANCE WITH THE ATTACHED DETAILS.
3. FOR "PICTURE WINDOW" MODIFICATION TO EXISTING SCREEN ENCLOSURES, ALL OTHER "EXISTING SCREEN ENCLOSURE" FEATURES ARE TO MEET THE TYPICAL DETAILS AS PROVIDED IN THESE DETAILS. CONTRACTOR IS TO VERIFY & ASSURE EXISTING SCREEN ENCLOSURE IS STRUCTURALLY SOUND.
4. CONTRACTOR TO PROVIDE NOA'S & INSTALL ALL MATERIALS AS PER MANUFACTURER'S SPECIFICATIONS.
5. INTEGRITY OF EXISTING/ HOST STRUCTURE SHALL NOT BE COMPROMISED WITH THE ATTACHMENT OF THE PROPOSED STRUCTURE.

SHEET NO.	DRAWING INDEX
S/01	GENERAL NOTES
S/02	PLAN/ ELEVATIONS
S/03	DETAILS
S/04	DETAILS

ALUMINUM MEMBERS DIMENSIONS

HOLLOW SECTIONS

2 x 2: 2"x2"x0.044"
2 x 3: 2"x3"x0.050"
2 x 4: 2"x4"x0.050"
2 x 5: 2"x5"x0.050"

OPEN BACK SECTIONS

1 x 2: 1"x2"x0.044"
1 x 3: 1"x3"x0.045"

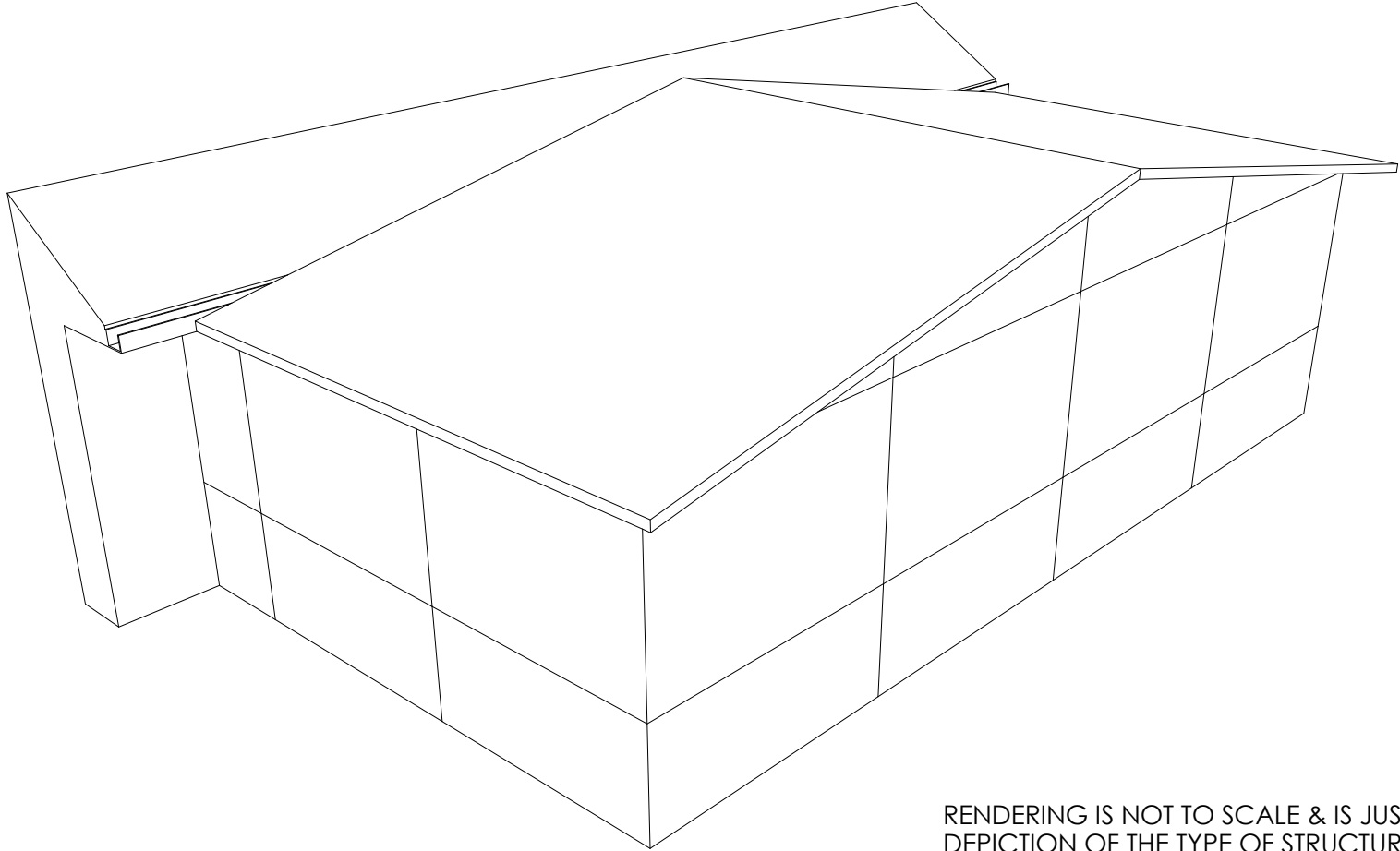
SNAP SECTIONS

2 x 2 SNAP: 2"x2"x0.045"
2 x 3 SNAP: 2"x3"x0.050"
2 x 4 SNAP: 2"x4"x0.045"

SELF MATING (SMB)

2 x 4 SMB: 2"x4"x0.044"x0.100"
2 x 5 SMB: 2"x5"x0.050"x0.100"
2 x 6 SMB: 2"x6"x0.050"x0.120"
2 x 7 SMB: 2"x7"x0.057"x0.120"
2 x 8 SMB: 2"x8"x0.072"x0.124"
2 x 9 SMB: 2"x9"x0.082"x0.124"
2 x 10 SMB: 2"x10"x0.092"x0.398"

DETAIL A

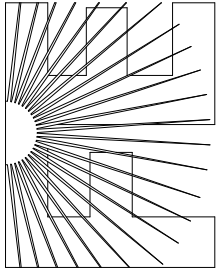


RENDERING IS NOT TO SCALE & IS JUST A GENERALIZED DEPICTION OF THE TYPE OF STRUCTURE PROPOSED

NEW GABLE SCREEN ROOM
SEE FOUNDATION DESIGN SHT-01

This item has been electronically signed and sealed by Craig E. Gunderson, P.E. on date below using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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PROJECT NO. 2211644-2

CA CERT. #30782

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DESIGN DATE: 04/28/2022

REVISION 1: 05/23/2022

REVISION 2:	DATE	SHEET: <div>01</div>
DRAWN BY:	RJ	
SCALE:	NTS	